

HG142PSWB-NMO



Features

- · Wide band performance; no tuning required
- NMO mount, Black Chrome Finish
- · Flexible Black Polymer Alloy Spring

Applications

- · Service Vehicles
- · Public safety

- · O-ring seal for waterproof construction
- Durable Xenoy™ base with TPV over mold dust seal and grip
- Public Transportation
- · Mining & Construction

Description

This wide band VHF mobile omnidirectional antenna is ideally suited for multipoin mobile applications including service vehicles, public transportation, public safety, mining and construction vehicles, as well numerous other commercial and industrial applications where mobility and wide coverage is desired. This antenna features a flexible Poly Spring base. Unlike the traditional metal spring base, the Poly Spring will not corrode and does not generate electrical noise when flexed during use. It has a standard TAD/NMO Motorola-type mobile base.

Configuration

Design **Application Band** Band Type Radiation Pattern Wavelength Polarization

Ground Plane Connector Type Vehicular VHF Wide

Omni Directional **Quarter Wave** Linear, Vertical Required **NMO Mount**

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	144		174	MHz
Operational Bandwidth		30		MHz
Input VSWR		1.8:1	2:1	
Impedance		50		Ohms
Gain		2		dBi
Horizontal (Azimuth) Beam Width		Omnidirectional		
Vertical (Elevation) Beam Width		70		Degrees
Input Power			150	Watts

Mechanical Specifications

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 dBi WideBand Poly Spring Vehicular Antenna 144-174 MHz NMO Mount Connector HG142PSWB-NMO





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Base Material Whip Material Whip Finish Mounting Application Spring Material

Size Length Xenoy™ w/TPV over mold grip 17-7 SS Black Chrome ¾ inch thru-hole NMO Mount Black Molded Polymer Alloy

19.33 in [490.98 mm]



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Installation Instructions HG142PSWB-NMO (144-174 MHz) 2 dBi VHF WIDE BAND ANTENNA

Congratulations on your selection of another quality antenna product from L-COM.
L-COM is committed to continually provide the greatest antenna VALUE for your wireless applications.

1. Parts (Figure 1):

Verify all parts are included with the Antenna as shown in Figure 1.

- A. Antenna Whip
- B. e/m-Flex[™] Poly Spring Assembly
- C. NMO Base Adapter
- D. O-Ring

2. Tools/Materials Required:

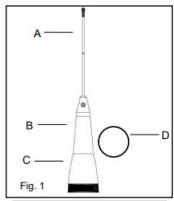
A. Antenna is factory tuned for 144-174 MHz. Special tools are not required to install or adjust the frequency of the antenna. The antenna is intended to be installed using a firm hand torque until the sealing O-ring is completely compressed against the installation surface.

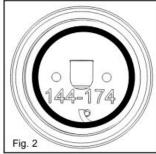
3. Pre-Installation (Figure 2):

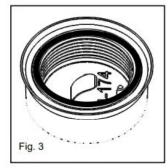
- A. Ground Plane: The antenna requires a conductive metallic ground-plane surface to achieve operational performance. Always mount antenna to the appropriate NMO Mount within the center of the groundplane surface.
- B. Ground-plane surface should be a minimum of 40 inches square (1m).
- C. Ensure O-ring is properly seated within O-ring groove as shown in Figure 2.
- D. <u>Important:</u> Verify proper operational Frequency, as labeled. (Figure 2).

4. Installation (Figure 3):

- A. Verify contact spring is completely extended.
- B. Thread NMO Base Adapter onto the NMO mount. Tighten by hand until O-Ring is completely seated.
- C. Thread Spring onto NMO Base Coil Adapter. Firmly torque by hand.
- D. Verify VSWR.
- E. **Note:** Antenna is factory pre-tuned for the specified bandwidth. **Do not apply adjustments** to whip length









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Environmental Specifications

Temperature

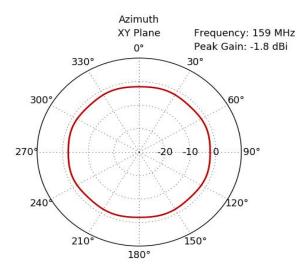
Operating Range Humidity -40 to +85 deg C 95%

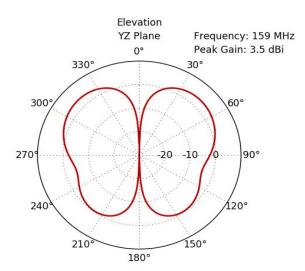
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Radiation Pattern





2 dBi WideBand Poly Spring Vehicular Antenna 144-174 MHz NMO Mount Connector from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

L-com CAD Drawing

